

METAL

GRIT GX/GI

- ▶ Belt Grinders
- ▶ Grinding Modules
- ▶ Deburring Machines
- ▶ Accessories



**Belt grinding for
professional users in metal working
and fabrication trades and industries**



GRIT – The brand for belt grinding from FEIN

Solving problems and developing solutions for metal working professionals – a core component of FEIN philosophies. For over 25 years GRIT has set the standard for quality belt grinding machinery. By taking over and investing in the GRIT brand FEIN has set the standards even higher. The comprehensive knowledge of these two leading manufacturers adds profit to your bottom line.

GRIT by FEIN, not a one size fits all product. GRIT by FEIN belt grinders offer the ideal solution for each requirement – with our unique and exclusive modular system; powerful, basic belt grinders and mounted modules are designed and engineered for specific tasks within the entire application range – specialized machines for all applications in metal working trades and industries.



GX – for use in the workshop

Constructed for operation and use in small; job, prototype and fabrication shops. The GRIT GX program stands out due to its high efficiency. Whether for rough grinding or surface polishing with GRIT GX machines you count on the quality you demand. GRIT GX machines can also be quickly converted to a variety of tasks, are reliable in operation and constructed to be tough and durable. The complete GRIT GX program can be found on pages 4 to 15.

All technical data provided by this brochure refer to the models in 220 V / 440 V, 3 ~, 60 Hz (US); 575 V, 3 ~, 60 Hz (CAN). There may be a few deviations of the given voltage and frequency values for the respective country-specific versions.

Your benefits:

- ▶ Ideal for use in small workshops and for limited production runs
- ▶ Covers all standard grinding tasks: Belt, radius and cylindrical grinding
- ▶ Easy to assemble, quickly installed and quickly converted
- ▶ Great work safety and machine reliability
- ▶ Quality work results due to professional equipment and accessories



GI – for use in industry

Industrial environments place extremely high demands on belt grinders; from high production, factory settings to harsh applications. The GRIT GI program is designed specifically for intense, industrial duty. All grinders are equipped with extremely powerful motors; even continuous operation times and high loads are no problem for the solidly built GI machines. Simple to operate the entire GI line increases work efficiency as well as machine reliability. The complete GRIT GI program can be found on pages 16 to 33.

All technical data provided by this brochure refer to the models in 220 V / 440 V, 3 ~, 60 Hz (US); 575 V, 3 ~, 60 Hz (CAN). There may be a few deviations of the given voltage and frequency values for the respective country-specific versions.

Your benefits:

- ▶ For industrial processing of steel, stainless steel and non-ferrous metals
- ▶ Suitable for all common materials and grinding applications
- ▶ Construction and parts are specifically adapted to heavy duty jobs
- ▶ High abrasive performance leads to economical and professional work results
- ▶ Great work reliability and simple operation
- ▶ Special solutions for special applications available

Tough, flexible, cost-effective In short: GRIT GX

If you work on steel or stainless steel every day, then GRIT GX belt grinders are the right choice. Twenty-five years of experience and know-how have evolved into GRIT – evident by the highly flexible design and machine reliability; the GX Grinders have the ability to easily adapt to various materials and applications – from rough grinding to mirror polishing.

The GRIT GX functions according to the building-block principle. The belt grinder is the foundation of the system. By simply adding modules, the spectrum of performance is highly enhanced. i.e. having the ability to notch pipe and tubing. The modular system is highly cost effective, saving both time and money. Grind efficiently and effectively with the GRIT GX system.



1. Belt Grinder GX 75 / GX 75 2H



Powerful belt sander in single- or two-speed models – the heart of the modular GX program. Highly productive and economical as a stand alone grinding center.

2. Radius Grinding Module GXR



Add-on module for quick and efficient radius grinding or notching. Radius grinding applications include: pipe, square/rectangular tubing, bar stock and profiles.

3. Cylindrical Grinding Module GXC



Add-on module for finishing and polishing applications on round, ferrous and non-ferrous stock – from rough grinding to mirror polish.

4. Deburring Machine GXE



Independent of the GX program, the GXE machine utilizes durable steel brushes for deburring steel and stainless steel workpieces. Available with optional pedestal base and steel or stainless steel brushes.

5. Accessories



Accessories for the GX belt grinders range from superior performing grinding belts to a cooling unit module.

GRIT GX: One system, multiple applications

Grinding, deburring, sanding, cylindrical finishing and notching of steel and stainless steel require a broad range of expensive, single purpose machinery. The GX system allows you to begin with a basic machine and expand capabilities as your requirements demand.



The system that grows with the requirements

The GRIT GX program is modularly designed. By attaching the appropriate modules you can quickly transform a basic belt grinder into a cylindrical or radius grinding machine. The easy and flexible GX program saves extensive time, money and space.

GX 75/GX 75 2H

Belt grinder (basic units)
7 901 01 / 7 901 02



GXR

Radius grinding module
9 90 01 001 00 0



Radius grinding machine

GX 75/GX 75 2H

Belt grinder (basic units)
7 901 01 / 7 901 02



GXC

Cylindrical grinding module
7 901 03



GXW

Cooling lubricant module
7 901 04



Cylindrical grinding machine "Centerless"

The perfect base: GX 75* / GX 75 2H* Belt Grinder

The GX 75 or GX 75 2H is the heart of the system. A reliable, powerful belt grinder for professional applications – based on a foundation of 25 years experience in mechanical engineering and belt grinding: built solid, easy to assemble, and equipped with everything that eases the work and the operation.



GX 75* / GX 75 2H*

- ▶ Tough AC motor provides grinding with constant speed
- ▶ Ideal speeds for metal working: GX 75* at 3,600 rpm; GX 75 2H*, dual speed, 1,800 or 3,600 rpm
- ▶ One step, self adjusting belt tension
- ▶ Comfortable operation through an adjustable work level, height-adjustable support for flat grinding, and easy belt adjustment
- ▶ Safe and reliable production results from a stable machine base and solid grinding table
- ▶ Integrated dust extractor connection (3 1/16" / 90 mm dia.)
- ▶ Detachable grinding particle collector

* US version order #:
 GX 75 2V; single speed; 220 V
 GX 75; single speed; 440 V
 GX 75 2H 2V; two speed; 220 V
 GX 75 2H; two speed; 440 V

Technical data

	GX 75*	GX 75 2H*
Power	3 kW (4 HP)	1.5/2 kW (2/2.5 HP)
Voltage US	220 or 440 V (3~)	220 or 440 V (3~)
Amps US	13.6 or 6.8	6.8/9.1 or 3.4/4.6
Voltage CAN	575 V (3~)	575 V (3~)
Amps CAN	5.2	2.6/3.5
Speed	3,600 rpm	1,800/3,600 rpm
Belt size	3" x 79" (75 x 2,000 mm)	3" x 79" (75 x 2,000 mm)
Connecting cable	6.5 ft	6.5 ft
Weight	145 lbs	145 lbs
Part Number:	7 901 01	7 901 02

Included in delivery:
 1 grinding belt 3" x 79", K 36 Z



1. Versatility for every job

GX 75 belt grinders feature high power motors providing outstanding capacities to assure maximum grinding production. The GX 75 and GX 75 2H also exhibit minimal vibration characteristics during operation, due in part to a patented belt tensioning system. Operator production and comfort is a standard feature with GRIT GX belt grinders.

Whether grinding, weld seam polishing, chamfering, deburring, or flat sanding – with Grit work is: efficient, productive and especially, cost effective!

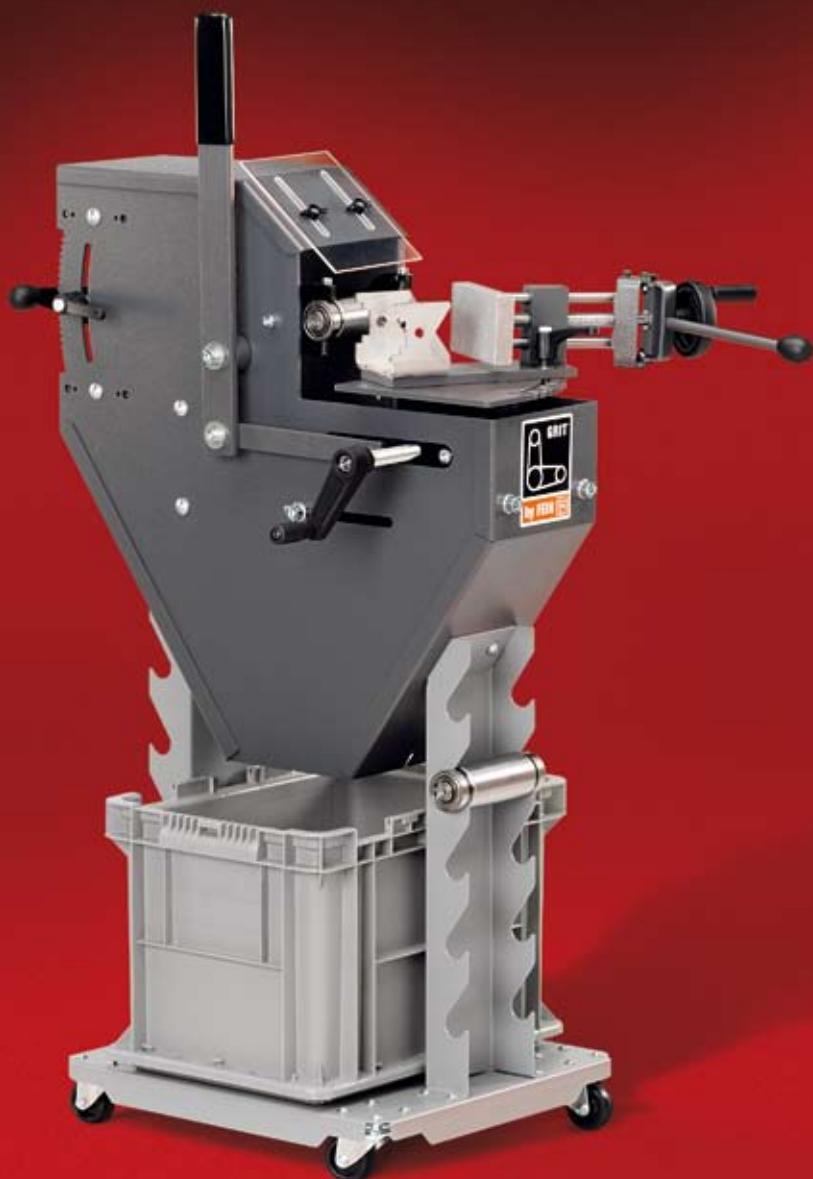


2. Optimal flat grinding

Flat grinding is another standard feature with GRIT machines. A 3" x 16 5/16" (75 x 420 mm) height adjustable grinding table for flat work is standard on both GX 75 and GX 75 2H.

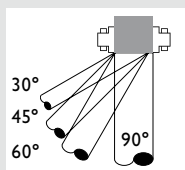
Everything simply fits together: GXR radius grinding module

The perfect solution for pipe and tube fabrication. By attaching the GXR module, the GX 75 2H belt grinder converts to the ideal platform for precise radius profiles on pipe and round or square stock. Standard features include: a quick clamp system, traverse carriage, indexed degree table and depth stop. User friendly with professional results; quickly and effortlessly.



GXR

- ▶ For precise grinding of profiles and pipes from 5/8"-3" (16-75 mm) dia.
- ▶ For angles of 30° to 90°
 - 30° / max. 1 1/2" (37.5 mm) dia.
 - 45° / max. 2 1/16" (53.0 mm) dia.
 - 60° / max. 2 3/16" (64.5 mm) dia.
 - 90° / max. 3" (75.0 mm) dia.
- ▶ User-friendly, with integrated depth stop and vise with quick-clamping for round and square pipes as well as solid material
- ▶ Contact rolls are available in all common sizes
- ▶ Vise with stainless steel clamping jaws
- ▶ Low speed (1,800 rpm) optimal for processing stainless steel. Less burrs and heat tarnish.
- ▶ Moves easily on 4 casters
- ▶ Can also be combined with the GI program (GI 75/GI 75 2H). Requires adapter # 6 99 02 186 00 0

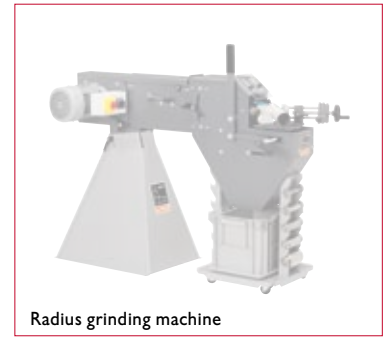
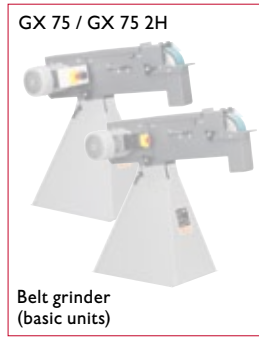


Technical data

Pipe diameter	5/8"-3" (16-75 mm) dia.
Profile dimensions/	
Square material max.	3" x 3" (75 x 75 mm)
Belt size	3" x 88 3/16" (75 x 2,250 mm)
Weight	119 lbs

Part Number	9 90 01 001 00 0
--------------------	-------------------------

Included in delivery: 1 contact roll 1 1/16" (42.4mm) dia.;
1 contact roll 1 7/8" (48.3mm) dia.;
1 grinding belt 3" x 88 3/16", K 36 Z, 1 water container



1. Perfect fit at any angle

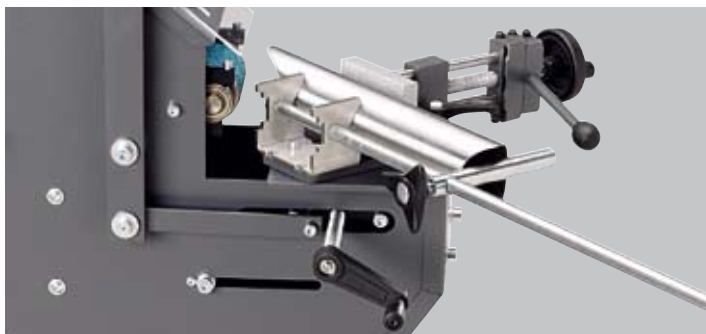
It makes no difference whether pipes, profiles, or solid material is being ground – the GXR radius grinding module is ideally suited. Precise, efficient and economical processing is achieved through a quickly indexed angle gauge and unique, quick clamp vise* for round and square stock – comes standard with stainless steel jaws.

(* patent pending)



2. Custom fit contact rollers

Pipes sized 5/8" – 3" (16–75 mm) dia. and an attack angle of 30° to 90° can be ground to a perfect fit with the radius grinding module. The extensive GRIT contact roller selection covers all standard pipe and tube diameters.



3. With length stop for production in series

The retrofitable length stop for the GXR radius grinding module ensures consistent, precise results in repetitive production. The length stop is adjustable through 39 3/8" (1 m) and can be added at any time.

Quality and efficient finishing: GXC cylindrical grinding module

The GXC cylindrical grinding module allows for perfect surfaces in the simplest manner. The conversion to a “Centerless” cylindrical grinding machine is done in just a few steps. Efficiency and flexibility are apparent in the design and construction.



GXC

- ▶ For grinding of pipes and shafts from 3/8"-4" (10-100 mm) dia.
- ▶ High process speed for highest surface quality.
- ▶ Suitable for wet-grinding when used with the GXW cooling lubricant module
- ▶ Moves easily on 4 casters
- ▶ Can also be combined with the GI program (GI 75/GI 75 2H).
Requires adapter # 6 99 02 187 00 0

Technical data

Pipes	3/8"-4" (10-100mm) dia.
Belt size	3" x 79" (75 x 2,000mm)
Voltage US	220/440 V (3~)
Voltage CAN	575 V (3~)
Weight	106 lbs

Part Number 7 901 03

Included in delivery: 2 guide rail, nylon; 1 guide rail, brass, 1 connecting cable with CEE plug 16 A

GXW Cooling lubricant module

Voltage US	220/440 V (3~)
Voltage CAN	575 V (3~)
Weight	19 lbs

Part Number 7 901 04

Included in delivery:
1/4 gal (1 liter) cooling lubricant emulsion (1:30)



Belt grinder
(basic units)



GX 75 /
GX 75 2H



Cylindrical
grinding
module



GXC
7 901 03



Cooling
lubricant
module



GXW
7 901 04



Cylindrical grinding machine
"Centerless"



1. Quick brilliant results all around

Perfect surface quality and high process speeds on pipes and shafts are no problem for the GXC cylindrical grinding module. Even commercially available fleece belts can be used in connection with the GX 2H basic unit. The feed rate can be adjusted for various materials through an infinite range up to 6.6 ft/min (2 m/min).



2. Always on the right track

Quality surface finishes are always assured with the GXC. Included are two nylon and one brass guide rail for all your finishing needs. The brass rail is used for wet or dry finishing on rough surfaces such as corrosion, scale, etc. The nylon rail is used for wet finishing on sensitive materials when a highly polished surface is required.



3. GXW for wet grinding

There are several arguments for wet grinding using the GXW cooling lubricant module: A liquid coolant captures the metal dust, which increases the service life of the sanding belts; the finishing results are noticeably improved; and thanks to the reduction of heat generated during grinding the corrosion risk for stainless steel pipes is reduced. A self contained, closed circulation system minimizes coolant consumption.

Finishes up the job neatly: GXE deburring machine

An ideal addition to the GRIT GX program: The deburring machine GXE completes the final task. It is highly effective for deburring pipes, profiles and flat materials. The broad spectrum of GRIT deburring brushes solves nearly all deburring jobs.



GXE

- ▶ For deburring pipes and profiles
- ▶ Connection for extraction option available
- ▶ Employable as polishing machine when using the appropriate polishing wheels
- ▶ High operational reliability due to integrated safety switch with motor protection
- ▶ Broad range of wire brushes available (see accessories)

Technical data

Power	2.2 kW (3.0 HP)
Voltage US	220/440 V (3~)
Amps US	10 or 5
Voltage CAN	575 V (3~)
Amps CAN	3.8
Speed	1,800 rpm
Tool dimension max.	Ø 10" x 2 3/8"
Connecting cable	6.6 ft
Weight	71 lbs

Part number 7 901 05

Included in delivery: Motor protection switch, under voltage release. *Brush not included in delivery. Stand is an optional accessory

The ideal work platform: GIXS and GIXBE machine bases

With or without extraction – both machine bases are ideally suited for the GXE deburring machine. Easy to assemble, robustly constructed, and extremely sturdy. Machine bases can also be used with GI machines (GI 100 and GIE).



GIXS/GIXBE

- ▶ Sturdy machine base made of heavy gauge steel
- ▶ Safety and stability require machine base to be bolted to floor or a stable platform

GIXBE

- ▶ Integrated motor for highly effective double extraction
- ▶ Cassette filter for effective air cleaning
- ▶ Integrated metal grinding particle collector, resistant against hot sparks
- ▶ Flexible, heat-resistant steel suction hoses

Technical data GIXS

Dimensions (l x w x h)	12" x 14" x 30"
Weight	40 lbs
Part number	9 90 01 002 00 0

Technical data GIXBE

Power	370 W (0.5 HP)
Voltage US	220/440 V (3~)
Amps US	1.7 or 0.8
Voltage CAN	575 V (3~)
Amps CAN	0.6
Max. vacuum	0.038 PSI
Dimensions (l x w x h)	12" x 23" x 27.5"
Weight	128 lbs
Part number	9 90 01 009 00 0





Maximize work efficiency: Original GRIT machine accessories

There is one thing that all of our machine accessories have in common: They are perfectly tuned – to our machines as well as to your requirements of daily work. Backed by the know-how of twenty five years of belt grinding engineering, the GRIT machine accessories are not only superior in quality, but significantly improve work efficiency and production.



Accessories GX 75/GX 75 2H

Graphite coated base

Lubricated base plate for flat grinding.
Pack of 5
Part Number 3 90 00 000 00 1

Contact wheel

Extra hard
Part Number 3 90 00 000 00 5

Eye protection

Acrylic screen for protection against sparks, pack of 3
Part Number 3 90 00 000 00 4

Accessories GXR

Stainless steel clamping jaws

Use when processing stainless steel, pack of 1
Part Number 6 99 02 004 00 0

Length stop

Length 39" (1 m), infinitely adjustable, simple assembly
Part Number 6 99 02 001 00 0

Contact rollers

Simple assembly, ball bearing mounted at both ends

mm dia.	T-inch	P-inch	Part Number
16.0			6 99 02 020 00 0
17.0			6 99 02 021 00 0
17.2			6 99 02 022 00 0
18.0			6 99 02 023 00 0
19.0			6 99 02 024 00 0
20.0			6 99 02 025 00 0

Accessories GXR

Contact rollers

mm dia.	T-inch	P-inch	Part Number
21.0			6 99 02 026 00 0
21.3		1/2"	6 99 02 027 00 0
22.0			6 99 02 028 00 0
22.2			6 99 02 029 00 0
22.5			6 99 02 030 00 0
23.0			6 99 02 031 00 0
23.1			6 99 02 032 00 0
24.0			6 99 02 033 00 0
24.5			6 99 02 034 00 0
25.0			6 99 02 035 00 0
25.4	1"		6 99 02 036 00 0
25.9			6 99 02 037 00 0
26.0			6 99 02 038 00 0
26.4			6 99 02 039 00 0
26.9		3/4"	6 99 02 040 00 0
27.0			6 99 02 041 00 0
28.0			6 99 02 042 00 0
28.6			6 99 02 043 00 0
28.8			6 99 02 044 00 0
29.0			6 99 02 045 00 0
30.0			6 99 02 046 00 0
31.7			6 99 02 047 00 0
32.0	1 1/4"		6 99 02 048 00 0
33.0			6 99 02 049 00 0
33.7		1"	6 99 02 050 00 0
34.0			6 99 02 051 00 0
35.0			6 99 02 052 00 0
36.0			6 99 02 053 00 0
37.5			6 99 02 054 00 0
38.0			6 99 02 055 00 0
38.1			6 99 02 056 00 0
38.3	1 1/2"		6 99 02 057 00 0
40.0			6 99 02 058 00 0
41.0			6 99 02 059 00 0
41.2			6 99 02 060 00 0
42.0	1 5/8"		6 99 02 061 00 0
42.4		1 1/4"	6 99 02 062 00 0

Contact rollers

mm dia.	T-inch	P-inch	Part Number
42.6			6 99 02 063 00 0
43.0			6 99 02 064 00 0
43.3			6 99 02 065 00 0
44.0			6 99 02 066 00 0
44.5	1 3/4"		6 99 02 067 00 0
45.0			6 99 02 068 00 0
46.0			6 99 02 069 00 0
48.0			6 99 02 070 00 0
48.3		1 1/2"	6 99 02 071 00 0
49.0			6 99 02 072 00 0
50.0			6 99 02 073 00 0
50.8	2"		6 99 02 074 00 0
51.0			6 99 02 075 00 0
53.0			6 99 02 076 00 0
53.7			6 99 02 077 00 0
54.0			6 99 02 078 00 0
55.0			6 99 02 079 00 0
57.0			6 99 02 080 00 0
58.0			6 99 02 081 00 0
59.0			6 99 02 082 00 0
60.0			6 99 02 083 00 0
60.3		2"	6 99 02 084 00 0
63.0			6 99 02 085 00 0
63.5	2 1/2"		6 99 02 086 00 0
65.0			6 99 02 087 00 0
67.0			6 99 02 088 00 0
69.0			6 99 02 089 00 0
70.0			6 99 02 090 00 0
73.0		2 1/2"	6 99 02 091 00 0
75.0			6 99 02 092 00 0
76.0			6 99 02 093 00 0
76.1			6 99 02 094 00 0
76.2	3"		6 99 02 095 00 0
80.0			6 99 02 096 00 0
82.5			6 99 02 097 00 0
88.9	3 1/2"	3"	6 99 02 098 00 0
90.0			6 99 02 099 00 0



GRIT grinding belts can be found on page 33.

Accessories GXR

Eye protection
 Acrylic screen for protection against sparks, pack of 3
Part Number 3 90 00 000 00 7

Water container
 Plastic, to douse sparks, complete with handles on the sides, capacity about 5.2 gal (20 l)
Part Number 3 90 00 000 48 5

Connecting piece
 Required for adapting the GXR module to a belt grinder of the GI program
Part Number 6 99 02 186 00 0

Accessories GXC

Guide rail
 Brass, for dry grinding and coarse material surfaces
Part Number 3 90 00 000 49 6

Guide rail, nylon
 For high surface quality
Part Number 3 90 00 000 49 7

Connecting piece
 Required for adapting the GXC module to a belt grinder of the GI program
Part Number 6 99 02 187 00 0

Accessories GXE

Steel brush
 10" × 2 3/8" (250 mm × 60 mm) dia., with very high wire strength for especially efficient use, mounting hole 2" (51 mm) dia.

33 wire gage for thin-walled pipes and profiles. 28 wire gage for universal applications. 25 wire gage for thick-walled pipes and profiles and high deburring effectivity.

Steel type:

Wire gage / mm	Part Number
33 / 0.20	6 99 02 006 00 0
28 / 0.35	6 99 02 007 00 0
25 / 0.50	6 99 02 008 00 0

Stainless steel type:

Wire gage / mm	Part Number
36 / 0.20	6 99 02 009 00 0
29 / 0.35	6 99 02 010 00 0

Metal particle bag
 For collecting material particles; quick and easy attachment
Part Number 6 99 02 005 00 0

Eye protection
 Acrylic screen for protection against sparks, pack of 3
Part Number 3 90 00 000 00 4

Accessories GXW

Cooling lubricant emulsion
 Concentrated, 2.6 gal (10 l), mix ratio 1:30, makes 79 gal (300 l) ready coolant
Part Number 6 99 02 100 00 0

Further accessories

Flexible hose
 For particle removal, 3 9/16" dia., 3.3 ft long, steel, high heat resistance
Part Number 3 90 00 000 00 2

Clamping band
 For fastening the flexible hose
Part Number 3 90 00 000 00 3

Water container
 To douse sparks, plastic with side handles, complete with metal lid and flexible hose; capacity about 5.2 gal (20 l)
Part Number 6 99 02 000 00 0

GRIT GI – for use in industry

Developed especially for heavy-duty work in industry, the GI program stands out because of its power and efficiency. All elements are extremely durable, high loads and long service life are a standard feature of the GRIT GI machine – just as high operational reliability and simple operation.

1. Broad range of applications

GRIT GI machines process all materials and applications that are common in the metal industry: steel, stainless steel and non-ferrous metals – in flat, round or square profiles. All grinding applications are covered by the GI program: Flat, cylindrical and abrasive grinding as well as sanding down, radius grinding, chamfering and deburring.

2. Constructed for industrial use

Professional applications in industrial settings require high demands – these demands are achieved throughout the GI program. Durable construction and extremely powerful motors; a GI machine runs reliably day in and day out. Partially automated cycles make operations even easier.

3. Quickly amortised

The acquisition costs for GRIT GI machines are quickly recovered. Work is done quickly and efficiently with high quality results.

4. Economic

The GRIT GI program is modularly designed: Depending on the application you can assemble the ideal machine – from the machine base with or without extraction and the basic machine to the grinding module. If the job situation changes, then a radius grinder for example is quickly converted to a surface grinder.



Modular machine program

Belt grinding



Basic belt grinder

GI 75	7 902 01
GI 75 2H	7 902 02
GI 150	7 902 04
GI 150 2H	7 902 05



Machine base

GIB	9 90 01 003 00 0
GIBE	9 90 01 004 00 0



Belt grinder

Pipe notching



Basic belt grinder

GI 150	7 902 04
GI 150 2H	7 902 05



Machine base

GIB	9 90 01 003 00 0
GIBE	9 90 01 004 00 0



Module

GIR	9 90 01 007 00 0
-----	------------------



Pipe notching machine

Linear grinding



Basic belt grinder

GI 150	7 902 04
GI 150 2H	7 902 05



Machine base

GIB	9 90 01 003 00 0
GIBE	9 90 01 004 00 0



Module

GIL	7 902 08
-----	----------



Linear grinder

Mobile application



Basic belt grinder

GI 75	7 902 01
GI 75 2H	7 902 02
GI 150	7 902 04
GI 150 2H	7 902 05



Mobile base

GIM	9 90 01 005 00 0
-----	------------------



Grinding mobile

Belt grinding



Basic belt grinder

GI 100	7 902 03
--------	----------



Machine base

GIXS	9 90 01 002 00 0
GIXBE	9 90 01 009 00 0



Belt grinder

Standard machine program

Belt grinding



Belt grinder

GIS 75	7 902 09 50
--------	-------------

Special machine program

Centerless grinding



Centerless grinder

GICS	7 902 06
------	----------

The ideal base for any task: GI 75 and GI 150 belt grinders

The basic equipment for industrial belt grinding: the GRIT GI 75- and GI 150 belt grinders. Every component is made for extreme professional applications. An exceedingly powerful motor keeps the speed constant and ensures high grinding performance. Available in 3" and 6" (75 and 150 mm) belt width as well as one- or two-speed version.

GI 75 (2H)/GI 150 (2H)

- ▶ High-performance belt grinders available in either 1 or 2 speeds and different belt widths (3" or 6" / 75 mm or 150 mm)
- ▶ Constant speed and high grinding performance thanks to a powerful, robust motor
- ▶ Ease of operation: low vibrations, patented belt-tensioning system
- ▶ Designed for safety in the workplace: work stop, grinding gap, and eye protection can be adjusted individually
- ▶ Built in outlets for easy connection to central, grinding particle extraction systems

GIB/GIBE

- ▶ Work height can be adjusted conveniently without effort by a gas compression spring
- ▶ Safe and stable work platform for grinding due to heavy gauge steel construction

GIBE

- ▶ Integrated motor for highly effective double extraction
- ▶ Cassette filter for effective air cleaning
- ▶ Integrated metal grinding particle collector, resistant against hot sparks
- ▶ Flexible, heat-resistant steel suction hoses



GI 75 2H + GIB



GI 150 2H + GIBE

Basic belt grinder



GI 75* 7 902 01
 GI 75 2H* 7 902 02
 GI 150* 7 902 04
 GI 150 2H* 7 902 05



Machine base



GIB 9 90 01 003 00 0
 GIBE 9 90 01 004 00 0



Belt grinder




1. Full performance

An extremely powerful motor makes sure the speed remains constant during operation. The robust construction guarantees reliable operation even under the toughest conditions. And with the appropriate modules both can be quickly and easily converted to radius and surface grinders.



2. Unrivalled dust control

The GIBE machine base with double suction ports is greatly enhanced through its standard details: resistant against sparks, equipped with a metal grinding particle collector, suction hoses made of steel and a cassette filter, it readily conforms to the requirements of industrial operations.

* US version order #: GI 75 2V; single speed; 220 V/18.2 amps
 GI 75; single speed; 440 V/9.1 amps
 GI 75 2H 2V; two speed; 220 V/11.8–14.1 amps
 GI 75 2H; two speed; 440 V/5.9–7.0 amps
 GI 150 2V; single speed; 220 V/18.1 amps
 GI 150; single speed; 440 V/9.1 amps
 GI 150 2H 2V; two speed; 220 V/11.8–14.1 amps
 GI 150 2H; two speed; 440 V/5.9–7.0 amps

Technical data

	GI 75*	GI 75 2H*	GI 150*	GI 150 2H*
Power*	4,000 W	2,600–3,100 W	4,000 W	2,600–3,100 W
Speed	3,600 rpm	1,800/3,600 rpm	1,800 rpm	1,800/3,600 rpm
Belt size	3"x79"(75x2,000mm)	3"x79"(75x2,000mm)	6"x79"(75x2,000mm)	6"x79"(75x2,000mm)
Weight	143 lbs	143 lbs	180 lbs	180 lbs
Part Number	7 902 01	7 902 02	7 902 04	7 902 05
Contents include:	1 grinding belt 3"x79" (75x2,000 mm), grain 36 Z		1 grinding belt 6"x79" (150x2,000 mm), grain 40 Z	

	GIB	GIBE
Power	–	350 W
Weight	38 lbs	121 lbs
Part Number	9 90 01 003 00 0	9 90 01 004 00 0
Contents include:	–	2 pcs. flexible hose, 4 pcs. clamping band

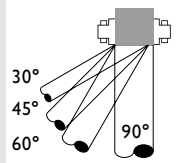
Pipe notching in production: GIR tube and pipe notching module

Fast and exact: the GIR pipe notching module is ideally tuned for industrial applications. The high abrasive cutting performance ensures economic operation – and with 6" (150 mm) belt width the GIR is capable of processing large diameter materials.



GIR

- ▶ Precision notch grinding of pipes up to \varnothing 6" (150 mm)
- ▶ Vice with exchangeable stainless steel jaws and rapid clamping system
- ▶ Integrated depth stop for repetitive production
- ▶ No tools required for angle adjustment
- ▶ For angles of
 - 30° / max. \varnothing 1 3/16" (30 mm)
 - 45° / max. \varnothing 4 1/8" (105 mm)
 - 60° / max. \varnothing 5 1/8" (130 mm)
 - 90° / max. \varnothing 6" (150 mm)
- ▶ Contact rollers available for all common pipe diameters
- ▶ In combination with GI 150 2H: The low speed (1,800 rpm) is ideal for processing stainless steel, non-ferrous metals and use with small diameter contact rollers $< \varnothing$ 1 3/8" (35 mm)
- ▶ Effective double extraction when using the GIBE machine base in connection with adaptor (part no. 6 99 02 182 00 0)



Technical data

GIR	
Diameter pipes	\varnothing 1 3/16" – 6" (20–150 mm)
Dimensions profiles/ flat material max.	4 3/4" x 6" (120 x 150 mm)
Belt size	6" x 88 9/16" (150 x 2,250 mm)
Weight	240 lbs

Part Number 9 90 01 007 00 0

Included in delivery: 1 x contact roller for \varnothing 1 11/16" (42.4 mm);
1 grinding belt 6" x 88 9/16" (150 x 2,250 mm), grain 36 Z

Basic belt grinder



GI 150 7 902 04
GI 150 2H 7 902 05



Machine base



GIB 9 90 01 003 00 0
GIBE 9 90 01 004 00 0



Pipe notching module



GIR 9 90 01 007 00 0



Pipe notching machine



GI 150 2H + GIBE + GIR



1. Durable and powerful

Its durable construction has been developed especially for use in industrial environments; continuous use is not a problem for the GIR module. Whether processing thin, thick or solid materials; the high performance motors ensure quick and efficient radius grinding.



2. Effortless production

A special feature is the heavy-duty work holding vice. Its rapid clamping system makes it possible to change materials quickly and effortlessly. Contact corrosion on stainless steel material is prevented by the supplied stainless steel clamping jaws. For effective, grinding particle collection an extraction adapter is available (part # 6 99 02 182 00 0)



3. Highly adaptable

For precise miter joints on round and square material, GRIT has developed a special mitre grinding plate. While retaining the stock belt length its simple attachment makes it unique to the industry. The mitre grinding plate is a patent pending accessory for the GIR module.

Maximum pipe diameter:

- ▶ 0° - Ø 4 5/16" (110 mm)
- ▶ 30° - Ø 3 1/8" (80 mm)
- ▶ 45° - Ø 2 3/8" (60 mm)

Automatic linear surface grinding: GIL surface grinding module

Essential for finishing edges, flat surfaces and welding preparation; the GIL linear grinding module features an exclusive automatic feed. GIL provides perfect surfaces quickly and economically and is suited for all metals, even stainless steel processing.

GIL

- ▶ Perfect finishing results quickly and efficiently
- ▶ Easy setup
- ▶ Suitable for various material shapes
- ▶ Module can be swiveled on the belt grinder from parallel to perpendicular with the optional swivel attachment to compensate for close quarters in the workspace
- ▶ The contact grinding plate on the belt grinder is accessible while the GIL module is attached
- ▶ Adjustable stops accommodate various widths of materials
- ▶ Flat material can be ground upright for edge finishing
- ▶ Works with grinding belts 60 to 400 grit

Technical data

GIL	
Belt size	6" x 79" (150 x 2,000 mm)
Performance feed motor	180 W (0.24 HP)
Voltage US	220 V / 440 V (3~)
Amps US	0.8 or 0.4
Voltage CAN	575 V (3~)
Amps CAN	0.3
Dimensions profiles/ flat material max.	4" x 4 3/4" (100 x 120 mm)
Weight	141 lbs
Part Number	7 902 08

Basic belt grinder



GI 150 7 902 04
GI 150 2H 7 902 05



Machine base



GIB 9 90 01 003 00 0
GIBE 9 90 01 004 00 0



Module



GIL 7 902 08

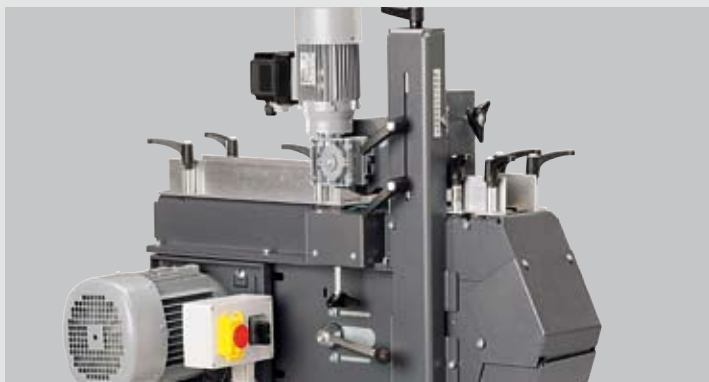


Linear grinder




1. Surface grinding made easy

Linear grinding of square and flat materials or profiles is incredibly easy with the unique GIL surface grinding module as well as conversion from belt to surface grinding. The GIL module accommodates standard size belts on the basic grinder and is patent pending.



2. Perfect surfaces

Perfect finishes on steel and non-ferrous metals can be achieved without compromising surface qualities. Even the difficulties of stainless steel finishing are easily overcome with the GIL surface grinding module.



3. Great performance, little space

Smart solution: Thanks to the optional GIL swivel joint (part # 6 99 02 176 00 0) and the modular machine concept, confined spaces are no longer a problem when surfacing longer material. The infinitely variable swivel range is 0 to 90 degrees.

Stationary belt grinding goes mobile: GIM carriage

The GIM grinding module is the perfect solution when the work cannot be brought to the grinder. The solution, bring the grinder to the work surface. Perfect for grinding weld seams on large, flat surface areas such as ship decks. The GIM carriage eliminates time consuming hand work and operator fatigue.



GIM

- ▶ Highly effective for grinding / polishing of weld seams on the floor
- ▶ Ideal for various grinding applications on large fabrications i.e. ship decks, off-shore structures, bridge beams, pre cast concrete forms etc
- ▶ Comfortable work position eliminating operator fatigue and back strains
- ▶ Easy to handle
- ▶ Minimum wall clearance
- ▶ Towing bar position can be adjusted through an infinitely variable range
- ▶ Adjustable depth stop

Technical data

GIM	
Belt size	3" / 6" x 79" (75 / 150 x 2,000 mm)
Weight	77 lbs
Part Number	9 90 01 005 000 (440 V - 60 Hz) 9 90 01 006 000 (3~, 220 V - 50 / 60 Hz)

Professional belt grinder in small format: GI 100 belt grinder

Maximum performance in a small package. The GI 100 belt grinder is an ideal machine for abrasive surface grinding and deburring of small parts or continuous duty grinding in die cast operations. Its small size makes this durable belt grinder the perfect alternative for use in confined spaces.

Basic belt grinder



GI 100 7 902 03

Machine base

GIXS 9 90 01 002 00 0
GIXBE 9 90 01 009 00 0

Belt grinder



GI 100 with GIXBE



GI 100

- ▶ A belt grinder with universal applications and excellent performance values
- ▶ Ideal for machining of small parts
- ▶ Use as a bench top grinder or mount on the optional machine bases available with or without integrated particle collection system (see page 30)
- ▶ Patented belt-tensioning system by gas spring
- ▶ Perfectly suited for mobile applications in field service vehicles
- ▶ Also available in a single phase, 220 vac version to run off welding generators
- ▶ Detailed information on the GRIT machine bases can be found on page 13

Technical data

GI 100	
Power	1,500 W (2.0 HP)
Voltage US	220 V / 440 V (3~)
Amps US	6.8 or 3.4
Voltage CAN	575 V (3~)
Amps CAN	2.6
Speed	3,600/min
Circumferential speeds	30 m/sec.
Belt size	4" x 39 3/8" (100 x 1,000 mm)
Weight	62 lbs

Part Number 7 902 03

Included in delivery:
1 Grinding belt 4" x 39 3/8" (100 x 1,000 mm), 60 Z grit

The specialist for belt grinding: GIS 75 belt grinder

The ideal solution for those whose needs are strictly belt grinding. The GIS 75 is manufactured with the same high quality and industrial duty standards as the rest of the GI series machines. Durable construction, powerful motor and compact design make the GIS 75 ideal for the shop that does not have the need for modular adaptability. Outstanding performance in an economical package.



GIS 75

- ▶ High-performance belt grinder, complete with sturdy machine base
- ▶ Constant speed and high grinding performance thanks to a powerful 4 kW motor
- ▶ Ease of operation: minimal vibration and an adjustable work height
- ▶ Patented belt-tensioning system
- ▶ Great operator safety: the grinding stop, grinding gap and eye protection shield can be adjusted individually
- ▶ Removable swarf collector

Technical data

	GIS 75
Power	4,000 W (5.3 HP)
Voltage US	220 V / 440 V (3~)
Amps US	18.2 or 9.1
Voltage CAN	575 V (3~)
Amps CAN	7.0
Speed	3,600/min
Belt size	3" x 79" (75 x 2,000 mm)
Weight	163 lbs

Part Number 7 902 09 50

Included in delivery:

1 grinding belt 3" x 79" (75 x 2,000 mm), 36 Z grit



Belt grinder



GIS 75

7 902 09 50



1. Maximum performance, minimal space

The compact construction of the GIS 75 lends itself well to the production shop with minimum space. By eliminating the extra costs associated with add on components this industrial rated belt grinder features a very good price-performance ratio.

2. Performance in a compact package

The Grit GIS 75 continuous duty, industrial rating is an attribute of its 4 KW, high performance motor. In addition: the durable construction, ease of operation and reliability make this belt grinder an asset for the metal working professional

Brilliant results all around: GICS centerless grinding system

The perfect system for cylindrical grinding of round materials on a production basis. From rough grinding to a brilliant finish – the process speed of the GICS is as impressive as the quality of the finish. Even flawless finishes on stainless steel become simple.



GICS

- ▶ High performance cylindrical grinder for pipes and round material made of steel, stainless steel, cast and non-ferrous metals, from $\varnothing \frac{3}{8}'' - 6 \frac{5}{16}''$ (10 – 160 mm)
- ▶ High work speed and abrasion performance
- ▶ 2 speeds: Low speed (1,800/min) optimal for processing stainless steel
- ▶ Wet grinding for perfect surface quality up to the final finish
- ▶ Durable construction with a small footprint
- ▶ Simple and effective belt adjuster and patented gas spring belt tensing system
- ▶ Simple guide rail exchange system through an integrated turret head
- ▶ Infinitely variable adjustable feed speed
- ▶ In feed and out feed prism guide for long workpieces are available as an accessory
- ▶ Expandable by linking tandem GICS grinding centers

Technical data

GICS	
Power max.	3,100 W (4.2 HP)
Voltage US	220 V / 440 V (3~)
Amps US	14.0 or 7.0
Voltage CAN	575 V (3~)
Amps CAN	5.4
Speed	1,800/3,600/min
Circumferential speed	99 ft/sec
Belt size	3" x 118" (75 x 3,000 mm)
Weight	440 lbs

Part Number 7 902 06

Included in delivery: 1 guide rail brass, 1 guide rail nylon, 1 guide roll rubberized, 1 l cooling lubricant emulsion, 1 grinding belt 3" x 118" (75 x 3,000 mm), 220 A grit



Centerless grinder



GICS

7 902 06



1. High-performance production grinding

Larger diameter pipe, tube and other round materials can be ground quickly and efficiently using the GICS grinding center. An integrated cooling lubricant system and infinitely variable feed rate ensure perfect surface finishes on even the most demanding materials such as stainless steel.



2. Perfectly equipped down to the last detail

The GICS centerless grinding center comes standard with all the features necessary for easy and convenient operation. Specifically designed for production shops, the GICS has been constructed with industrial specs and features superior machine reliability. Matching grinding belts from Grit are available for all materials and finishing requirements.



3. Unlimited possibilities

Materials of unlimited length can be processed thanks to the optional in feed and out feed extension fittings. The linear feed guide guarantees precise alignment in both vertical and horizontal positions. In addition: for materials that require two steps for the required finish GICSs can be combined to operate sequentially in line.

Deburring under industrial conditions: GIE deburring machine

Workpieces made of steel, non-ferrous metals and stainless steel can be quickly and effectively deburred by the GIE deburring machine. The durable construction and the powerful drive make this machine ideal for industrial applications. Either bench mounted or on the optional bases the GIE can easily be adapted to confined spaces.



GIE

- ▶ For efficient deburring and polishing of material made of steel, stainless steel, cast or non-ferrous metals
- ▶ For use with steel and stainless steel wire brushes as well as conventional polishing buffs
- ▶ Optimal speed adjustment by 2 speeds
- ▶ Wire brushes are available in coarse, medium or fine wire thickness and steel or stainless steel versions
- ▶ Suitable bench mounted or on optionally available machine bases with (GIXBE) or without (GIXS) a dust particle collection system

Technical data

GIE	
Power	1,500 W (2.0 HP)
Voltage US	220 V / 440 V (3~)
Amps US	6.8 or 3.4
Voltage CAN	575 V (3~)
Amps CAN	2.6
Speed	1,800 / 3,600 / min
Tool Ø max.	10" (250 mm)
Tool width	2 x 2 3/8" (2 x 60 mm)
Weight	75 lbs

Part Number	7 902 07
--------------------	-----------------

Quality down to the finest detail: Original GRIT machine accessories

There is one thing all of our machine accessories have in common: They are perfectly tuned – to our machines as well as to your requirements of daily work. Backed by the know-how of 25 years of belt grinding engineering, GRIT machine accessories are constructed of the highest quality and designed specifically for maximum efficiency.



Accessories GI 75/GI 75 2H

Graphite coating

As a gliding base for plane grinding, 3 1/8" x 17" (80 x 430 mm), pack of 5

Part Number 3 90 00 000 00 1

Contact wheel

Ø 8" x 3" (200 x 75 mm), grade 80 shore (extra hard)

Part Number 3 90 00 000 00 5

Drive disc

with polyurethane coating for long service life, Ø 8" x 3" (200 x 75 mm)

Part Number 3 90 00 000 00 6



Eye protection

Acrylic screen for protection against sparks, pack of 3

Part Number 3 90 00 000 19 0

Accessories GI 150/GI 150 2H

Graphite coating

As a gliding base for plane grinding, 6 1/8" x 17" (155 x 430 mm), pack of 3

Part Number 3 90 00 000 05 6

Contact wheel

Ø 8" x 6" (200 x 150 mm), grade 80 shore (extra hard)

Part Number 3 90 00 000 18 8

Drive disc

with polyurethane coating for long service life, Ø 8" x 6" (200 x 150 mm)

Part Number 3 90 00 001 08 9

Accessories GI 150/GI 150 2H



Eye protection

Acrylic screen for protection against sparks, pack of 3

Part Number 3 90 00 000 18 4

Accessories GIR



Contact rollers

Long service life, low resistance because of high-quality ball bearings, easily replaceable

mm dia.	T-inch	P-inch	Part Number
Ø 20.0			6 99 02 101 00 0
Ø 22.0			6 99 02 102 00 0
Ø 25.0			6 99 02 103 00 0
Ø 25.4	1"		6 99 02 104 00 0
Ø 26.9		3/4"	6 99 02 105 00 0
Ø 28.0			6 99 02 106 00 0
Ø 30.0			6 99 02 107 00 0
Ø 32.0	1 1/4"		6 99 02 108 00 0
Ø 33.7		1"	6 99 02 109 00 0
Ø 35.0	1 3/8"		6 99 02 110 00 0
Ø 38.0			6 99 02 111 00 0
Ø 38.1			6 99 02 112 00 0
Ø 38.3	1 1/2"		6 99 02 113 00 0
Ø 40.0			6 99 02 114 00 0
Ø 42.4	1 5/8"	1 1/4"	6 99 02 115 00 0
Ø 44.5	1 3/4"		6 99 02 116 00 0
Ø 48.3		1 1/2"	6 99 02 117 00 0
Ø 50.0			6 99 02 118 00 0
Ø 50.8	2"		6 99 02 119 00 0
Ø 60.0			6 99 02 120 00 0
Ø 60.3		2"	6 99 02 121 00 0
Ø 63.5	2 1/2"		6 99 02 122 00 0
Ø 69.0			6 99 02 123 00 0
Ø 76.1			6 99 02 124 00 0

Accessories GIL

Swivel joint

For adjusting the work area for confined spaces, infinitely variable swivel area up to 90°

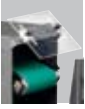
Part Number 6 99 02 176 00 0

mm dia.	T-inch	P-inch	Part Number
Ø 76.2	3"		6 99 02 125 00 0
Ø 84.0			6 99 02 126 00 0
Ø 88.9		3"	6 99 02 127 00 0
Ø 101.6		3 1/2"	6 99 02 128 00 0
Ø 104.0			6 99 02 129 00 0
Ø 108.0			6 99 02 130 00 0
Ø 114.3	4 1/2"	4"	6 99 02 131 00 0
Ø 133.0			6 99 02 132 00 0
Ø 139.7			6 99 02 133 00 0
Ø 152.4	6"	6"	6 99 02 155 00 0
Ø 168.3			6 99 02 134 00 0
Ø 193.7			6 99 02 135 00 0

Mitre grinding plate

For precision mitre grinding, simple assembly. Max. pipe Ø: 0° – Ø 4 5/16" (110 mm), 30° – Ø 3 1/8" (80 mm), 45° – Ø 2 3/8" (60 mm)

Part Number 6 99 02 175 00 0



Eye protection

Acrylic screen for protection against sparks, pack of 3

Part Number 3 90 00 000 18 4



Adaptor

For optimal extraction for connection to the GIBE machine base with double extraction

Part Number 6 99 02 182 00 0

Accessories GIE

Steel brush

Ø 10" x 2 3/8" (250 mm x 60 mm), with very high wire strength for especially efficient use, mounting hole, Ø 2" (51 mm).

33 wire gauge/0.2 mm for thin walled pipes and profiles. 28 wire gauge/0.35 mm for universal employment. 25 wire strength/0.5 mm for thick walled pipes and profiles and high deburring effectivity.

Steel model:

Wire gauge/mm	Part Number
33/0.20	6 99 02 006 00 0
28/0.35	6 99 02 007 00 0
25/0.50	6 99 02 008 00 0

Stainless steel model:

Wire gauge/mm	Part Number
36/0.20	6 99 02 009 00 0
29/0.35	6 99 02 010 00 0

Eye protection

Acrylic screen for protection against sparks, pack of 3

Part Number 3 90 00 000 00 4

Accessories GIBE / GIXBE

Cassette filter

Fits GIBE

Part Number 3 90 00 000 97 6

Cassette filter

Fits GIXBE

Part Number 3 90 00 001 00 5

Accessories GICS

Prism guide GICW

Metal guide (46") for supporting the feed of long pipes, sized Ø 3/8" – 6 5/16" (10 – 160 mm); max. material weight 110lbs

Part Number 6 99 02 179 00 0

Linear guide

Device for exact alignment of the prism guides in horizontal and vertical direction, for direct mounting on the left and right of the GICS, 2-pack

Part Number 6 99 02 178 00 0

With machine base, for floor mounting, pack of one

Part Number 6 99 02 185 00 0

Extension fitting

to connect 2 prism guides

Part Number 6 99 02 180 00 0

Suppressor

Hold down fixture for light weight small diameter tubing, attaches to prism guide Ø of 3/8" – 6 5/16" (10 – 160 mm)

Part Number 6 99 02 177 00 0

Guide rail, brass

For dry grinding and course material surfaces

Part Number 3 90 00 000 49 6

Guide rail, nylon

For high surface quality

Part Number 3 90 00 000 49 7

Accessories GICS

Cooling lubricant emulsion

Concentrated, 2.6 gal (10l), mix ratio 1:30, makes 79 gal (300l) ready coolant

Part Number 6 99 02 100 00 0

Further accessories

Flexible hose

For grinding particle removal, Ø 3 9/16" (90 mm), 3.3 ft (1 m) long, steel, high heat resistance

Part Number 3 90 00 000 00 2

Clamping band

For fastening the flexible hose

Part Number 3 90 00 000 00 3

Swarf bag

For collecting grinding particles, quick and easy attachment

Part Number 6 99 02 005 00 0

Dust collector

Collecting container for grinding particle, plastic, ca. 16" x 12" x 11" (400 x 300 x 285 mm), can also be used as a water container for catching sparks, capacity about 5.2 gal (20l)

Part Number 3 90 00 000 48 5

Container with metal lid and flexible hose

Part Number 6 99 02 000 00 0



GRIT – Belt grinding for professional users in engineering trades and industry

Your retailer

USA: FEIN Power Tools Inc., 1030 Alcon Street, Pittsburgh, PA 15220, ☎ 1-412-922-8886, Toll Free: 1-800-441-9878

Canada: FEIN Canadian Power Tool Company, 323 Traders Boulevard East, Mississauga, Ontario L4Z 2E5, ☎ (905) 890-1390, Toll Free: 1-800-265-2581
FEIN Québec Ltée, 2810 De Miniac St. Laurent, Quebec H4S 1K9, ☎ (514) 331-7390, Toll Free: 1-800-789-8181

Germany: C. & E. FEIN GmbH, Hans-Fein-Straße 81, 73529 Schwäbisch Gmünd-Bargau, ☎ 07173 183-0, Fax: -180

Great Britain: FEIN Industrial Power Tools U.K. Ltd., 4 Badby Park, Heartlands Business Park, Daventry, Northants NN11 8YT, ☎ 01327 308730

Australia: FEIN Australasia Pty. Ltd., P.O. Box 287, Unit 2/110 Bonds Road, Riverwood N.S.W. 2210, ☎ 02 9534 3533

South Africa: FEIN Power Tools South Africa (Pty) Ltd., 1st Floor Delpark House, 77 Fifth Street, Wynberg, 2090 Johannesburg, P.O. Box 1411, Bramley 2018, ☎ 011 444 2228

www.fein.com